

## Datasheet for 76650-0163

### General Information

<b>Part Number:</b>	76650-0163
<b>Manufacturer:</b>	Molex / Waldom
<b>Title:</b>	MINI-FIT RTC Power Connector Kit
<b>Description:</b>	Vertical Header and Receptacle
<b>Product Family:</b>	Mini-Fit RTC™
<b>Certificates:</b>	(Molex Parts within this kit) - EU RoHS Compliant, UL, and CSA
<b>Country of Origin:</b>	Kit assembled in U.S.A.

### Specifications

#### Design

<b>Configuration:</b>	Wire-to-Board
<b>Pitch:</b>	4.20mm (.165")
<b>Connector Type:</b>	Receptacles and Headers
<b>Mounting</b>	
<b>Orientation:</b>	Vertical
<b>Circuit Sizes:</b>	4, 6, 8, 10,12 and 24
<b>Current Rating:</b>	8 - 12 Amps - Dependent on AWG and Circuit Size
<b>Voltage:</b>	600 VoltsAC RMS / VoltsDC
<b>Wire size:</b>	24-18 AWG

### Product Highlights

Mini-Fit Reflow Temperature Compatible (RTC) Headers can withstand high SMT solder-reflow temperatures to guarantee compatibility with lead-free RoHS reflow processes. Mini-Fit RTC headers mate with standard Mini-Fit® receptacles, and share the same design features of the Mini-Fit Jr. headers, ensuring compatibility and reliability. Mini-Fit products provide a cost-effective solution for mid-range power applications that require high-density and current-carrying capability.

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Features and Benefits	Applications
<ul style="list-style-type: none"> <li>• Press-fit PCB pegs compatible with existing Mini-Fit receptacles and provide polarization during placement on the PCB</li> <li>• High-temperature LCP housing withstands RoHS lead-free processing up to 260°C peak (20 seconds)</li> <li>• Thumb latch for easy unmating</li> <li>• Positive housing lock for secure mating</li> <li>• Fully isolated terminals to protect contacts</li> <li>• Four gas-tight points of contact on Tin-plated contacts</li> </ul>	<ul style="list-style-type: none"> <li>• Desktop/tower computer</li> <li>• Power supplies</li> <li>• Networking: Hubs, Servers</li> <li>• Industrial</li> <li>• Medical</li> <li>• Transportation</li> <li>• Military Commercial Off-the-Shelf (COTS)</li> <li>• Mid-range power applications</li> </ul>

**Bill of Materials for Part No. 76650-0163**

Molex Part No.	Country of Origin	Description	Quantity in Kit
39-00-0039-C	USA	Female Term 24-18 AWG Tin	100
46207-0004	Mexico	4.20mm (.165") Pitch Mini-Fit RTC™ Vertical Header 4 Circuits	5
46207-0006	Mexico	4.20mm (.165") Pitch Mini-Fit RTC™ Vertical Header 6 Circuits	4
46207-0008	Mexico	4.20mm (.165") Pitch Mini-Fit RTC™ Vertical Header 8 Circuits	3
46207-0010	Mexico	4.20mm (.165") Pitch Mini-Fit RTC™ Vertical Header 10 Circuits	2
46207-0012	Mexico	4.20mm (.165") Pitch Mini-Fit RTC™ Vertical Header 12 Circuits	2
46207-0024	Mexico	4.20mm (.165") Pitch Mini-Fit RTC™ Vertical Header 24 Circuits	1
39-01-2040	USA	4.20mm (.165") Pitch Mini-Fit Jr.™ Receptacle 4 Circuits	5
39-01-2060	USA	4.20mm (.165") Pitch Mini-Fit Jr.™ Receptacle 6 Circuits	4
39-01-2080	USA	4.20mm (.165") Pitch Mini-Fit Jr.™ Receptacle 8 Circuits	3
39-01-2100	USA	4.20mm (.165") Pitch Mini-Fit Jr.™ Receptacle 10 Circuits	2
39-01-2120	USA	4.20mm (.165") Pitch Mini-Fit Jr.™ Receptacle 12 Circuits	2
39-01-2240	USA	4.20mm (.165") Pitch Mini-Fit Jr.™ Receptacle 24 Circuits	1

**Recommended Molex Tool(s) for Part No. 76650-0163\***

Molex Part No.	Country of Origin	Description
63819-0900 *	Sweden	Hand Crimp Tool
11-03-0044 *	USA	Extraction Tool

**For additional Molex / Waldom Design and Solution Kits please go to [www.molexkits.com](http://www.molexkits.com)**

1801 Morgan Street  
Rockford, Illinois 61102  
800-435-2931  
www.molexkits.com



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\*Tool(s) not included in kit. Tool(s) ordered separately.

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